

## DAFTAR PUSTAKA

- [1] M. S. Saputri, R. Mahendra, and M. Adriani, "Emotion classification on indonesian twitter dataset," in *2018 International Conference on Asian Language Processing (IALP)*. IEEE, 2018, pp. 90–95.
- [2] K. E. Saputra, G. D. Pratama, A. Chowanda *et al.*, "Emotion dataset from indonesian public opinion," *Data in Brief*, vol. 43, p. 108465, 2022.
- [3] B. Wilie, K. Vincentio, G. I. Winata, S. Cahyawijaya, X. Li, Z. Y. Lim, S. Soleman, R. Mahendra, P. Fung, S. Bahar, and A. Purwarianti, "Indonlu: Benchmark and resources for evaluating indonesian natural language understanding," in *Proceedings of the 1st Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 10th International Joint Conference on Natural Language Processing*, 2020.
- [4] R. Plutchik, "A general psychoevolutionary theory of emotion," in *Theories of emotion*. Elsevier, 1980, pp. 3–33.
- [5] M. Iqbal, "Twitter revenue and usage statistics (2023)," May 2023. [Online]. Available: <https://www.businessofapps.com/data/twitter-statistics/>
- [6] S. Rouhani and E. Abedin, "Crypto-currencies narrated on tweets: a sentiment analysis approach," *International Journal of Ethics and Systems*, vol. 36, no. 1, pp. 58–72, 2020.
- [7] P. Aragón, K. E. Kappler, A. Kaltenbrunner, D. Laniado, and Y. Volkovich, "Communication dynamics in twitter during political campaigns: The case of the 2011 spanish national election," *Policy & internet*, vol. 5, no. 2, pp. 183–206, 2013.
- [8] S. B. Mane, Y. Sawant, S. Kazi, and V. Shinde, "Real time sentiment analysis of twitter data using hadoop," *IJCSIT) International Journal of Computer Science and Information Technologies*, vol. 5, no. 3, pp. 3098–3100, 2014.
- [9] I. Goodfellow, Y. Bengio, and A. Courville, *Deep Learning*. MIT Press, 2016, <http://www.deeplearningbook.org>.
- [10] C. C. Aggarwal, *Machine learning for text*. Springer, 2018, vol. 848.
- [11] E. Kouloumpis, T. Wilson, and J. Moore, "Twitter sentiment analysis: The good the bad and the omg!" in *Proceedings of the international AAAI conference on web and social media*, vol. 5, no. 1, 2011, pp. 538–541.
- [12] L. Zhang, S. Wang, and B. Liu, "Deep learning for sentiment analysis: A survey," *Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery*, vol. 8, no. 4, p. e1253, 2018.
- [13] W. Wang, L. Chen, K. Thirunarayan, and A. P. Sheth, "Harnessing twitter" big data" for automatic emotion identification," in *2012 International Conference on Privacy, Security, Risk and Trust and 2012 International Confernece on Social Computing*. IEEE, 2012, pp. 587–592.

- [14] A. Severyn and A. Moschitti, "Twitter sentiment analysis with deep convolutional neural networks," in *Proceedings of the 38th international ACM SIGIR conference on research and development in information retrieval*, 2015, pp. 959–962.
- [15] F. Koto, A. Rahimi, J. H. Lau, and T. Baldwin, "Indolem and indobert: A benchmark dataset and pre-trained language model for indonesian nlp," *arXiv preprint arXiv:2011.00677*, 2020.
- [16] B. Liu, "Sentiment analysis and opinion mining," *Synthesis lectures on human language technologies*, vol. 5, no. 1, pp. 1–167, 2012.
- [17] G. B. Priya and M. U. Rani, "A framework for sentiment analysis of telugu tweets," *International Journal of Engineering and Advanced Technology (IJEAT)*, vol. 9, no. 6, 2020.
- [18] F. Strohm and R. Klinger, "An empirical analysis of the role of amplifiers, down-toners, and negations in emotion classification in microblogs," in *2018 IEEE 5th International Conference on Data Science and Advanced Analytics (DSAA)*. IEEE, 2018, pp. 673–681.
- [19] I. Ameer, G. Sidorov, H. Gomez-Adorno, and R. M. A. Nawab, "Multi-label emotion classification on code-mixed text: Data and methods," *IEEE Access*, vol. 10, pp. 8779–8789, 2022.
- [20] S. Dahiya, A. Mohta, and A. Jain, "Text classification based behavioural analysis of whatsapp chats," in *2020 5th international conference on communication and electronics systems (ICCES)*. IEEE, 2020, pp. 717–724.
- [21] P. Nandwani and R. Verma, "A review on sentiment analysis and emotion detection from text," *Social Network Analysis and Mining*, vol. 11, no. 1, p. 81, 2021.
- [22] N. A. Sharupa, M. Rahman, N. Alvi, M. Raihan, A. Islam, and T. Raihan, "Emotion detection of twitter post using multinomial naive bayes," in *2020 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT)*. IEEE, 2020, pp. 1–6.
- [23] M. Jabreel and A. Moreno, "A deep learning-based approach for multi-label emotion classification in tweets," *Applied Sciences*, vol. 9, no. 6, p. 1123, 2019.
- [24] A. F. Adoma, N.-M. Henry, W. Chen, and N. R. Andre, "Recognizing emotions from texts using a bert-based approach," in *2020 17th International Computer Conference on Wavelet Active Media Technology and Information Processing (ICCWA-MTIP)*. IEEE, 2020, pp. 62–66.
- [25] T. A. Koleck, C. Dreisbach, P. E. Bourne, and S. Bakken, "Natural language processing of symptoms documented in free-text narratives of electronic health records: a systematic review," *Journal of the American Medical Informatics Association*, vol. 26, no. 4, pp. 364–379, 2019.
- [26] P. Ekman, "Facial expressions of emotion: New findings, new questions," 1992.

- [27] C. Hendrick and R. S. Lilly, "The structure of mood: A comparison between sleep deprivation and normal wakefulness conditions," *Journal of Personality*, vol. 38, no. 4, pp. 453–465, 1970.
- [28] K. RICKELS and D. J. CLYDE, "Clyde mood scale changes in anxious outpatients produced by chlórdiazepoxide therapy," *The Journal of Nervous and Mental Disease*, vol. 145, no. 2, pp. 154–157, 1967.
- [29] P. Shaver, J. Schwartz, D. Kirson, and C. O'connor, "Emotion knowledge: further exploration of a prototype approach," *Journal of personality and social psychology*, vol. 52, no. 6, p. 1061, 1987.
- [30] A. Ortony, G. L. Clore, and A. Collins, *The cognitive structure of emotions*. Cambridge university press, 2022.
- [31] I. El Naqa and M. J. Murphy, *What is machine learning?* Springer, 2015.
- [32] V. Cherkassky and F. M. Mulier, *Learning from data: concepts, theory, and methods*. John Wiley & Sons, 2007.
- [33] R. Kohavi *et al.*, "Scaling up the accuracy of naive-bayes classifiers: A decision-tree hybrid," in *Kdd*, vol. 96, 1996, pp. 202–207.
- [34] A. W. Musk, A. Reid, N. Olsen, M. Hobbs, B. Armstrong, P. Franklin, J. Hui, L. Layman, E. Merler, F. Brims *et al.*, "The wittenoom legacy," *International Journal of Epidemiology*, vol. 49, no. 2, pp. 467–476, 2020.
- [35] G. King and L. Zeng, "Logistic regression in rare events data," *Political analysis*, vol. 9, no. 2, pp. 137–163, 2001.
- [36] J. H. Friedman, "Regularized discriminant analysis," *Journal of the American statistical association*, vol. 84, no. 405, pp. 165–175, 1989.
- [37] S. Rose *et al.*, "Targeted learning in data science: causal inference for complex longitudinal studies," 2018.
- [38] W. S. Noble, "What is a support vector machine?" *Nature biotechnology*, vol. 24, no. 12, pp. 1565–1567, 2006.
- [39] D. A. Pisner and D. M. Schnyer, "Support vector machine," in *Machine learning*. Elsevier, 2020, pp. 101–121.
- [40] M. A. Hearst, S. T. Dumais, E. Osuna, J. Platt, and B. Scholkopf, "Support vector machines," *IEEE Intelligent Systems and their applications*, vol. 13, no. 4, pp. 18–28, 1998.
- [41] P. Zhou, W. Shi, J. Tian, Z. Qi, B. Li, H. Hao, and B. Xu, "Attention-based bidirectional long short-term memory networks for relation classification," in *Proceedings of the 54th annual meeting of the association for computational linguistics (volume 2: Short papers)*, 2016, pp. 207–212.

- [42] Y. Xu, L. Mou, G. Li, Y. Chen, H. Peng, and Z. Jin, "Classifying relations via long short term memory networks along shortest dependency paths," in *Proceedings of the 2015 conference on empirical methods in natural language processing*, 2015, pp. 1785–1794.
- [43] B. Plank, A. Søgaard, and Y. Goldberg, "Multilingual part-of-speech tagging with bidirectional long short-term memory models and auxiliary loss," *arXiv preprint arXiv:1604.05529*, 2016.
- [44] A. Onan and M. A. Toçoğlu, "A term weighted neural language model and stacked bidirectional lstm based framework for sarcasm identification," *IEEE Access*, vol. 9, pp. 7701–7722, 2021.
- [45] A. Vaswani, N. Shazeer, N. Parmar, J. Uszkoreit, L. Jones, A. N. Gomez, Ł. Kaiser, and I. Polosukhin, "Attention is all you need," *Advances in neural information processing systems*, vol. 30, 2017.
- [46] K. Clark, U. Khandelwal, O. Levy, and C. D. Manning, "What does bert look at? an analysis of bert's attention," *arXiv preprint arXiv:1906.04341*, 2019.
- [47] I. Tenney, D. Das, and E. Pavlick, "Bert rediscovers the classical nlp pipeline," *arXiv preprint arXiv:1905.05950*, 2019.
- [48] D. Yenicelik, F. Schmidt, and Y. Kilcher, "How does bert capture semantics? a closer look at polysemous words," in *Proceedings of the Third BlackboxNLP Workshop on Analyzing and Interpreting Neural Networks for NLP*, 2020, pp. 156–162.
- [49] A. Ferrario, B. Demiray, K. Yordanova, M. Luo, and M. Martin, "Social reminiscence in older adults' everyday conversations: automated detection using natural language processing and machine learning," *Journal of medical Internet research*, vol. 22, no. 9, p. e19133, 2020.
- [50] R. Khan, Y. Qian, and S. Naeem, "Extractive based text summarization using k-means and tf-idf," *International Journal of Information Engineering and Electronic Business*, vol. 10, no. 3, p. 33, 2019.
- [51] S. Agajanian, O. Oluyemi, and G. M. Verkhivker, "Integration of random forest classifiers and deep convolutional neural networks for classification and biomolecular modeling of cancer driver mutations," *Frontiers in molecular biosciences*, vol. 6, p. 44, 2019.
- [52] A. Vabalas, E. Gowen, E. Poliakoff, and A. J. Casson, "Machine learning algorithm validation with a limited sample size," *PloS one*, vol. 14, no. 11, p. e0224365, 2019.
- [53] S. L. Brunton, "Applying machine learning to study fluid mechanics," *Acta Mechanica Sinica*, vol. 37, no. 12, pp. 1718–1726, 2021.
- [54] I. Ul Hassan, R. H. Ali, Z. Ul Abideen, T. A. Khan, and R. Kouatly, "Significance of machine learning for detection of malicious websites on an unbalanced dataset," *Digital*, vol. 2, no. 4, pp. 501–519, 2022.

- [55] S. M. Meystre, J. Thibault, S. Shen, J. F. Hurdle, and B. R. South, “Texttractor: a hybrid system for medications and reason for their prescription extraction from clinical text documents,” *Journal of the American Medical Informatics Association*, vol. 17, no. 5, pp. 559–562, 2010.
- [56] J. Deng, N. Cummins, M. Schmitt, K. Qian, F. Ringeval, and B. Schuller, “Speech-based diagnosis of autism spectrum condition by generative adversarial network representations,” in *Proceedings of the 2017 international conference on digital health*, 2017, pp. 53–57.
- [57] D. Chicco and G. Jurman, “The advantages of the matthews correlation coefficient (mcc) over f1 score and accuracy in binary classification evaluation,” *BMC genomics*, vol. 21, pp. 1–13, 2020.
- [58] P. R. Shaver, U. Murdaya, and R. C. Fraley, “Structure of the indonesian emotion lexicon,” *Asian journal of social psychology*, vol. 4, no. 3, pp. 201–224, 2001.
- [59] S. Cahyawijaya, H. Lovenia, A. F. Aji, G. I. Winata, B. Wilie, R. Mahendra, C. Wibisono, A. Romadhony, K. Vincentio, F. Koto *et al.*, “Nusacrowd: Open source initiative for indonesian nlp resources,” *arXiv preprint arXiv:2212.09648*, 2022.
- [60] N. A. Salsabila, Y. A. Winatmoko, A. A. Septiandri, and A. Jamal, “Colloquial indonesian lexicon,” in *2018 International Conference on Asian Language Processing (IALP)*. IEEE, 2018, pp. 226–229.